AN 134:368377 HCA Full-text
TI Oil-based ink for electrostatic ink-jet printing
IN Kato, Eiichi
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 47 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001131455	A2	20010515	JP 2000-255846	20000825
PRAI	JP 1999-238824	A	19990825		

AB Title ink-jet ink, with good discharging stability as well as image brightness and strength for multiple printing, is prepared by dispersing in a nonaq. solution having elec. resistivity of ≥109 Ω•cm and permittivity of ≤3.5, with particles prepared from a solution containing (A) monofunctional monomers, which are soluble in a nonaq. solvent but the resulted copolymer of which not, (B) amino-containing monofunctional monomers (copolymerizable with A), (C) SO3 and/or SO2H-containing monofunctional monomers (copolymerizable with A), (D) monofunctional macromonomers having main chains composed of specific repeat units with a terminal polymerizable double-bond group at one end, and (E) a star-type copolymer.

IC ICM C09D011-00
ICS B41J002-01; B41M005-00
CC 42-12 (Coatings, Inks, and Related Products)
Section cross-reference(s): 74
ST oil based electrostatic ink jet printing
IT Isoalkanes
RL: NUU (Other use, unclassified); USES (Uses)
(C7-10, Isopar E; preparation of oil-based ink for electrostatic ink-jet
printing)
IT Isoalkanes
RL: NUU (Other use, unclassified); USES (Uses)
(C9-12, Isopar G; preparation of oil-based ink for electrostatic ink-jet
printing)
IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(Microlith Black CT; preparation of oil-based ink for electrostatic ink-jet
printing)
IT **Paraffin** oils
RL: NUU (Other use, unclassified); USES (Uses)
(Shellsol 71; preparation of oil-based ink for electrostatic ink-jet

printing)
IT Naphthenic acids, uses
RL: MOA (Modifier or additive use); USES (Uses)
(cobalt salts; preparation of oil-based ink for electrostatic ink-jet
printing)
IT Printing (nonimpact)
(electrostatic; preparation of oil-based ink for electrostatic ink-jet
printing)
IT Inks
(jet-printing; preparation of oil-based ink for electrostatic ink-jet
printing)
IT Inks
(oil-based; preparation of oil-based ink for electrostatic ink-jet printing)
IT Dispersing agents
(preparation of oil-based ink for electrostatic ink-jet printing)
IT Polymers, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(star-branched; preparation of oil-based ink for electrostatic ink-jet
printing)
IT 150551-83-0 150551-89-6 150551-92-1 150551-93-2 150551-97-6
154340-06-4 155293-25-7 159967-38-1 159967-39-2 159967-40-5
159967-41-6 159967-42-7 159967-43-8 159967-44-9
RL: CAT (Catalyst use); USES (Uses)
(initiator; preparation of oil-based ink for electrostatic ink-jet printing)
IT 138005-15-9DP, 4,4'-azobis[4-cyanovaleric acid]-initiated, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester 139104-87-3P
139104-90-8P 139105-03-6P 139105-08-1P 139105-12-7P 141414-99-5P
141415-72-7P 214835-07-1P 215877-54-6P 215877-61-5P 217076-83-0P
333362-05-3P 339334-13-3P 339334-16-6P 339334-20-2P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(macromer; preparation of oil-based ink for electrostatic ink-jet printing)
IT 339275-35-3P, 2-(N,N-Diethylamino)ethyl crotonate-octadecyl methacrylate-4-sulfobutyl crotonate-vinyl acetate graft copolymer 339275-36-4P, Dodecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft copolymer 339275-37-5P, Methyl acrylate-2-(N,N-

dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate-tridecyl methacrylate graft copolymer 339275-38-6P, Hexadecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft copolymer 339275-39-7P, Methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-octadecyl acrylate-3-sulfopropyl methacrylate graft copolymer 339275-40-0P 339275-41-1P 339275-43-3P
339275-44-4P 339275-46-6P 339275-47-7P 339275-48-8P 339275-49-9P
339275-50-2P 339275-51-3P 339275-52-4P 339275-53-5P 339275-55-7P
339275-57-9P 339275-59-1P 339275-61-5P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of oil-based ink for electrostatic ink-jet printing)

IT 2373-23-1 7440-67-7D, Zirconium, dioctylsulfosuccinic acid complex, uses
25719-52-2, Polydodecylmethacrylate
RL: MOA (Modifier or additive use); USES (Uses)
(preparation of oil-based ink for electrostatic ink-jet printing)

IT 107-46-0, Hexamethyldisiloxane
RL: NUU (Other use, unclassified); USES (Uses)
(preparation of oil-based ink for electrostatic ink-jet printing)

IT 2580-56-5, Victoria Blue B 68993-80-6, Alkali Blue
RL: TEM (Technical or engineered material use); USES (Uses)
(preparation of oil-based ink for electrostatic ink-jet printing)

IT 150469-59-3P 159967-35-8P, Dodecyl methacrylate-ethyl acrylate-methyl methacrylate block copolymer 159967-36-9P, Methyl acrylate-methyl methacrylate-stearyl methacrylate block copolymer 159967-46-1P, Hexadecyl methacrylate-vinyl acetate-vinyl propionate block copolymer
159967-47-2P 159967-48-3P 159967-49-4P 159967-50-7P 159967-51-8P
159967-52-9P 159967-53-0P 159967-54-1P 159967-55-2P
216988-37-3P, Dodecyl acrylate-4-methylstyrene-octadecenyl methacrylate-styrene block copolymer 339569-47-0P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(star; preparation of oil-based ink for electrostatic ink-jet printing)

AN 1994-243398 [30] WPINDEX Full-text
DNN N1994-192020 DNC C1994-111138
TI Colour toner giving fixed images with high smoothness - including binder
resin obtd by **copolymerising** a monomer mixt comprising e.g. **octadecyl acrylate.**
DC A89 G08 P84 S06
PA (KONS) KONICA CORP
CYC 1
PI JP 06175394 A 19940624 (199430)* 12p
ADT JP 06175394 A JP 1992-351606 19921209
PRAI JP 1992-351606 19921209
AN 1994-243398 [30] WPINDEX Full-text
AB JP 06175394 A UPAB: 19940914
In the toner containing binder resin(s) and colourant(s), the binder resin is prepared by **copolymerising** a monomer mixture comprising 2-40 mol.% of monomer(s) of formula (I) and one or a mixt of **styrene**, **acrylic ester** and methacrylic ester type monomers. The binder resin has a softening pt. (Tsp) of 90-115 deg. C and a glass transition pt. (Tg) of 50-65 deg. C meeting the following conditions. In (I), R1 = H or CH3; and R2 = 8-18C, opt. substd. alkyl or alkenyl.

(I) include octyl, dodecyl, hexadecyl and **octadecyl methacrylate**, octyl, nonyl tetradecyl and octadecyl acrylate, partially halogenated prods. of the (meth)**acrylic esters** , dodecenyl methacrylate and dodecenyl acrylate.

USE/ADVANTAGE - The toner has high strength and hardness, high developing and transferring performance, good cleaning **property** and reduced dependence of charging upon environmental conditions offering stable colour fixed images over a long period. Dwg.1/1